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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,009	12/02/2003	Bernd Hildebrandt	MG-2555	2621	
7590 02/17/2006			EXAMINER		
CONNOLLY BOVE LODGE & HUTZ, LLP HEINRICH, SAMUEL N			SAMUEL M		
P.O. BOX 220	7	·			
WILMINGTO	N, DC 19899-2207	9899-2207 ART UNIT PAPER NUMBER			
			1725		

DATE MAILED: 02/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				d
		Application No.	Applicant(s)	
		10/726,009	HILDEBRANDT, BERND	
	Office Action Summary	Examiner	Art Unit	
		Samuel M. Heinrich	1725	-
Period fo	The MAILING DATE of this communication ap r Reply	pears on the cover sheet with the	correspondence address	
WHIC - Exter after: - If NO - Failur Any r	CORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING DISSION of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailine ad patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communication ED (35 U.S.C. § 133).	
Status				
1) 🛛	Responsive to communication(s) filed on 05 D	December 2005.		
·		s action is non-final.		
3)□	Since this application is in condition for allowa	nce except for formal matters, pro	osecution as to the merits i	s
	closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Dispositi	on of Claims			
4)⊠	Claim(s) 7-12 is/are pending in the application	l .		
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)□	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>7-12</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/c	or election requirement.		
Applicati	on Papers			
9) 🔲 -	The specification is objected to by the Examine	er.		
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct		•	(d).
11)[The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.	
Priority u	nder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreigr ☐ All b)☐ Some * c)⊠ None of:)-(d) or (f).	
	1. Certified copies of the priority document			
	2. Certified copies of the priority document			
	3. Copies of the certified copies of the prio		ed in this National Stage	
* 0	application from the International Burea			
3	ee the attached detailed Office action for a list	or the certified copies not receive	: 0.	
Attachment	• •			
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)	(PTO-413) ate	
3) 🔯 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>12302005</u> .	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over USPN 5,603,853 to Mombo-Caristan. Mombo-Caristan describe beam welding of materials such as aluminum. The beam welding can be laser or electron beam welding. The use of gas is described (e.g., column 9, lines 21+) comprising "helium, nitrogen, another conventional assist gas... from an assist gas supply 86 through an injection nozzle 88 onto the area of the sheets 30 & 32 being welded". This is a standard gas supply and when the gas is expanded from the compressed storage, the gas expands and cools to a low temperature. The instant claimed use of a "gas having a temperature less than ambient" would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because expanding gas cools.

Claims 7-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over USPN 6,036,076 to Royle. Royle describe (Abstract) electron beam welding and describe (column 2, lines 1-6) well known products made with the welding process including "Masts" and "Storage tanks" and "Flexible pipe" which are often light metal. Royle describe (column 2, lines 40-48)

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protecting the weld area with "a light weight gas like Helium" (this diverts the electrons less than other inert gases like nitrogen or argon". This is a standard gas supply and when the gas is expanded from the compressed storage, the gas expands and cools to a low temperature. The instant claimed use of a "gas having a temperature less than ambient" would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because expanding gas cools.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Samuel M Heinrich Primary Examiner Art Unit 1725

SMH